



“KINEMATIK SNC”, is an automatic positioning system (SNC). It is a simple and, at the same time, an extremely useful solution because it provides the possibility of conducting a large number of activities by programmed movements at specific programmed speeds.

KINEMATIK SNC is controlled by means of the “Quick Panel”, where user find all information to operate with the system in any of its Working Mode (Automatic, Manual and PC Communication).

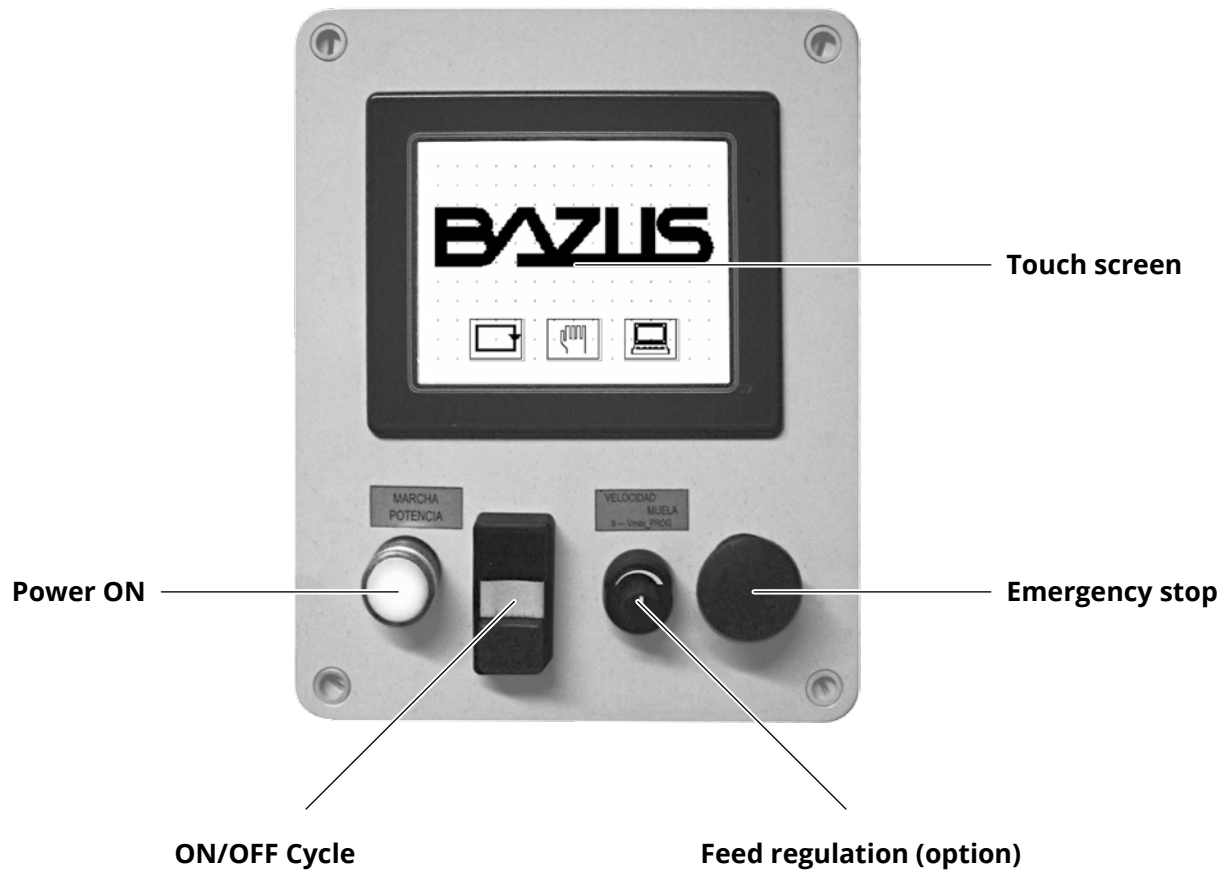
“Quick Panel” is equipped with “Touch screen” to select the Work Mode, buttons Power ON/OFF, Cycle ON /OFF and Emergency Stop.

Equipment:

The BAZUS Slide units controlled by means of the KINEMATIK SNC are equipped with following equipment in the standard version:

- Preloaded ball screws with double nut (high accuracy)
- Displacement by means of linear guides (big load capacity) or dovetailed guides (ant vibration)
- Special bearings high accuracy in all units
- SNC “Quick Panel” with high resolution touch screen
- Brushless motors
- All elements ready to plug and work (easy start up)
- Construction in stabilized high quality cast iron GG25
- Feed range 12-7000 mm/min
- Screen resolution: 0.01 mm
- Positioning accuracy: 0.02 mm

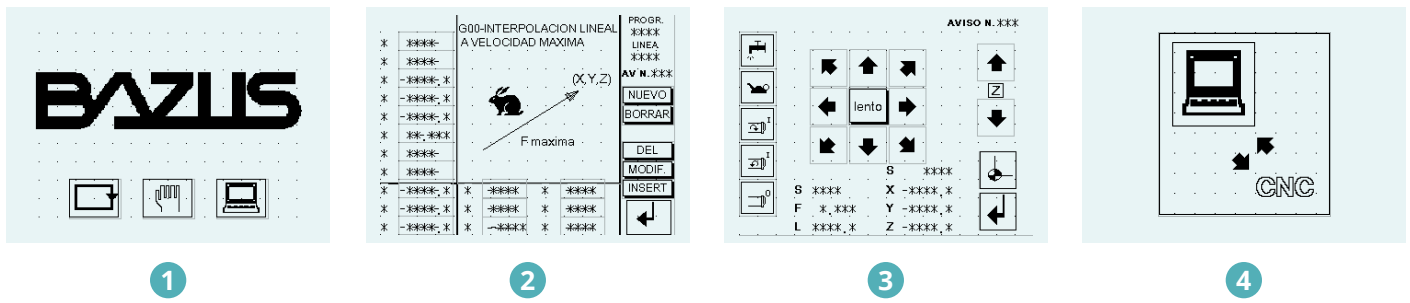
Under request, the BAZUS Slide Units can be also equipped with any other standard CNC (Fagor, Fanuc, Heidenhan...)



Quick panel

The KINEMATIK slides are delivered ready to plug and work as described below:

- **"KINEMATIK unit"** with motors and HOME micros ready to plug and work. All components connected and protection in all cables.
- **"Electronic Box"** with all electric and electronic elements needed for calculation and functions.
- **"Quick Panel"** with Touch Screen for Workmode selection, Emergency Stop and ON/OFF cycle buttons. Connected till "Electronic Box" with 5 meter cable to allows user to fix the Quick Panel in appropriated work position.



Working mode

KINEMATIK tables are able to work in 3 different “Working Modes”. Trough the Touch Screen user can select appropriated Mode.

1 Mode Selection

- Automatic
- Manual
- Communication

2 Automatic Mode

ISO friendly environment Programming trough Ginstructions (G00, G01, G90...) and M functions (synchronization with external devices).

3 Manual Mode

Actual position read out / HOME reference & LIMIT switches / Feed and displacements with visual icons.

4 Communication Mode

Only for users with DYFE (PC Windows) software, which allows user to programme the KINEMATIK system with a PC and connect the system trough RS232 output.

| G | Data | Description |
|------------|---------------|--|
| G00 | N XYZ M S | Lineal interpolation max. Feed |
| G01 | N XYZ F M S | Lineal interpolation programmed F Feed |
| G02 | N XYZ F U M S | Circular interpolation right |
| G03 | N XYZ F U M S | Circular interpolation left |
| G04 | N K | Chronometer (in seconds) |
| G10 | N M | Increase the piece counter |
| G25 | N K R | Repetition / Cycle loop |
| G55 | N M T D | Tool length |
| G90 | N M | Change to Absolute programming mode |
| G91 | N M | Change to Incremental programming mode |
| G92 | N XYZ | Coordinates selection as ZERO |
| G93 | NM | Cancel G92 selection |
| G94 | N M S | Change to mm/rev (tapping) |
| G95 | N M S | Change to m/min |



Accessories

KINEMATIK tables can be equipped with the any special accessories required by the application: Output signal (synchronization with external device; available till 20 outputs), increase of speed, (for applications in which high speed is required), or any other special equipment (feed regulation, electronic hand wheel, tapping function...)

Software DYFE for PC Communication: The software "DYFE" developed by BAZUS is a powerful tool for programming the KINEMATIK systems in a friendly PC WINDOWS environment. "DYFE" is extremely easy-use software (usability) that allows user to programme movements and speeds by ISO code instructions. Moreover "DYFE" offers Help Windows for programmation where user can find all information and instructions to programme in an intuitive way.

